LISTING OF AND AMENDMENTS TO CLAIMS:

- 1. 11. (canceled)
- 12. (currently amended) An apparatus for filing vias in a wafer, comprising:
- a chamber in which to place the wafer, said chamber being capable of being evacuated;
 - a surface upon which to place said wafer;
- a pressurized paste delivery portion for providing a paste to fill said vias; and
- a pressurized paste filling portion for bringing said paste into contact with said vias under pressure so that said paste fills said vias, wherein said paste filling portion comprises:
- a planar surface onto which said paste is deposited; and a mechanism for applying pressure so that said paste on said surface is forced into contact with said wafer, wherein said mechanism for applying pressure comprises:
- a plate which defines said surface; and

 components for applying a pressure differential to said

 plate so as to force said plate toward said wafer.
- 13. (previously presented) The apparatus as recited in claim 12, wherein said paste filling portion provides said paste at a pressure within the range of 10 to 100 PSI.
- 14. (canceled).
- 15. (currently amended) The apparatus as recited in claim $\frac{12}{12}$ [[14]], wherein said paste delivery portion comprises:

- a surface onto which said paste is deposited; and
- a passageway through which said paste is delivered to said surface.
- 16. (canceled).
- 17. (currently amended) The apparatus as recited in claim 12 [[16]], further comprising a compliant material on said surface to which said paste is applied.
- 18. 20. (canceled).
- 21. (original) The apparatus as recited in claim 12, wherein said surface upon which to place said wafer comprises a base plate having a recess for said wafer.
- 22. (currently amended) The apparatus as recited in claim $\frac{12}{2}$ [[21]], wherein said surface upon which to place said wafer comprises a surface of an electrostatic chuck.
- 23. (original) The apparatus as recited in claim 12, wherein said paste delivery portion comprises a pressurized paste reservoir.
- 24. 27. (canceled).
- 28. (currently amended) The apparatus as recited in claim 12, wherein said paste filling portion further comprises:
- an elongate member having a surface with a slot through which paste is provided to said wafer; and
 - a compliant seal for sealing said surface to said wafer.

- 29. (original) The apparatus as recited in claim 28, further comprising a mechanism for translating said member and said wafer with respect to one another so as to fill vias in successive portions of said wafer.
- 30. (original) The apparatus as recited in claim 28, further comprising a mechanism for rotating said member and said wafer with respect to one another so as to fill vias in successive portions of said wafer.
- 31. (currently amended) The apparatus as recited in claim 30, wherein said mechanism for rotating said member and said wafer with respect to one another comprises comprising a rotating base having said surface upon which said wafer is placed.
- 32. (original) The apparatus as recited in claim 28, configured to accept a circular wafer, wherein said elongate member is disposed radially with respect to said wafer.
- 33. (previously presented) The apparatus as recited in claim 32, wherein said elongate member has a length less than that of a radius of said wafer, wherein said apparatus further comprises:
 - a mechanism for rotating said wafer; and
- a mechanism for radially translating said member in a radial direction with respect to said wafer.
- 34. (original) The apparatus as recited in claim 33, wherein said mechanism for rotating said wafer includes a rotation speed control to control speed of rotation of said wafer.

- 35. (original) The apparatus as recited in claim 33, wherein said mechanism for radially translating said member includes a translation speed control to control speed of translation of said member with respect to said wafer.
- 36. (original) The apparatus as recited in claim 33, wherein said mechanism for radially translating said member includes a worm gear assembly, and a motor for rotating a drive shaft of said assembly.
- 37. (previously presented) The apparatus as recited in claim 12, wherein said wafer is disposed entirely within said chamber.
- 38. (previously presented) The apparatus as recited in claim 12, wherein said paste filling portion is disposed entirely within said chamber.
- 39. (previously presented) The apparatus as recited in claim 12, wherein said wafer and said paste filling portion are disposed entirely within said chamber.